

Claims

1. Portable assembly for emergency ventilation,
5 comprising:
 - a source (1) of compressed gas equipped with a
gas pressure-reducing valve device (2) with
which it is possible to control the flowrate
and/or the pressure of the gas issuing from the
10 gas source (1),
 - a respiratory assistance ventilator (3) fed
with gas by said gas source (1), and
 - a man/machine interface (4) cooperating with
said ventilator (3) so as to permit regulation
15 of at least one ventilation parameter and/or of
at least one ventilation set-point.
2. Assembly according to Claim 1, characterized in
that the gas pressure-reducing valve device (2)
20 comprises an outlet connector (5) to which the
respiratory assistance ventilator (3) is fixed.
3. Assembly according to either of Claims 1 and 2,
characterized in that the respiratory assistance
25 ventilator (3) comprises an internal gas circuit
(12) forming a fluidic connection from an inlet
orifice (11) to an outlet orifice (23), a
proportional valve (13) being arranged on said
internal circuit (12), said valve (13) being
30 controlled by control means (14) cooperating with
the man/machine interface (4).
4. Assembly according to one of Claims 1 to 3,
characterized in that the respiratory assistance
35 ventilator (3) moreover comprises a venturi
injector (16) arranged on the internal circuit
(12), downstream of the proportional valve (13).

5. Assembly according to one of Claims 1 to 4,
characterized in that the respiratory assistance
ventilator (3) additionally comprises a flowrate
sensor (19) and a pressure sensor (20) for
5 measuring the flowrate and the pressure of the gas
in the internal circuit (12), said sensors
cooperating with the control means (14) in such a
way as to permit automatic control and regulation
of the proportional valve (13) in terms of
10 flowrate and/or pressure.
6. Assembly according to one of Claims 1 to 5,
characterized in that the man/machine interface
(4) comprises means (33, 34, 35) for regulating a
15 ventilation set-point or parameter in order to
permit selection and/or regulation of at least one
ventilation parameter and/or of at least one
ventilation set-point, and preferably display
means (32) cooperating with said regulating means
20 in order to make it possible to visualize and/or
display at least one value of at least one
ventilation parameter and/or of at least one
ventilation set-point that has been selected
and/or regulated.
- 25 7. Assembly according to one of Claims 1 to 6,
characterized in that it comprises a patient
circuit (6) with at least one gas conduit
connected, via its upstream end, to the outlet
30 orifice (23) of the ventilator and, via its
downstream end, to a respiration mask (7).
8. Assembly according to one of Claims 1 to 7,
characterized in that the pressure-reducing valve
35 (2) and the ventilator (3) are protected by a
protective hood fixed on the gas source (1).
9. Assembly according to one of Claims 1 to 8,
characterized in that the means (33, 34, 35) for

regulating a ventilation set-point or parameter permit selection and/or regulation of at least one ventilation parameter and/or of at least one ventilation set-point chosen from the group comprising the ventilation frequency, the ventilation flowrate, the ventilation volume, the composition of the gas mixture, the inhalation trigger threshold, the inhalation time and/or the exhalation time, or their ratio, the positive expiratory pressure (PEP), the ventilation mode, and the maximum safety pressure.

10. Assembly according to one of Claims 1 to 9, characterized in that the pressure-reducing valve device (2), the respiratory assistance ventilator (3) and the man/machine interface (4) cooperating with said ventilator (3) form a compact system supported by the gas source (1), in particular by an oxygen cylinder.